DR. Emmanuel Kofi Amewode

Lecturer · Department of Physics
University of Cape Coast

ORCID 0000-0002-0559-5723 · Google Scholar scholar.google.com/citations?user=ZnMM-6IAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/8c4ff2a0-1cb2-4d9f-9a6f-19331ca24685

RESEARCH

Interests	Nanotechnology · soil physics · COMSOL Multiphysics
Areas	Materials Chemistry · Civil and Structural Engineering · Atomic and Molecular Physics, and Optics · Biomedical Engineering · Artificial Intelligence · Electrical and Electronic Engineering

RESEARCH SUMMARY

9	22	3	0	0.51	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 9 publications listed below, 2020–2026. Field-weighted impact is the mean over the 7 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 7 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Teaching Associate 2003–present
Physics, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

Doctor of Philosophy 2014–2018
Physics, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 8

1. D. Sekyi-Arthur, M. Amekpewu, K. W. Adu, K. A. Dompreh, **E. K. Amewode**, S. Y. Mensah, K. K. Gbordzoe (2026). High Thermoelectric Efficiency in Fluorine-Doped Carbon Nanotubes. *Journal of Nanotechnology*. https://doi.org/10.1155/jnt/7877150
2. Raymond Edziah, Samuel S. Bentsiefi, Kwadwo Dompreh, Anthony Twum, **Emmanuel Kofi Amewode**, Patrick Mensah-Amoah, Ebenezer T. Tatchie, Cynthia Jebuni-Adanu, Samuel Y. Mensah (2024). Investigation of Acoustomagnetoelectric Effect in Bandgap Graphene by the Boltzmann Transport Equation. *World Journal of Condensed Matter Physics*. https://doi.org/10.4236/wjcmp.2024.141002
3. D. Sekyi-Arthur, S.Y. Mensah, **E.K. Amewode**, R. Arthur, R.R. Adams (2023). Acoustoelectric direct current density in fluorine doped single-walled carbon nanotubes due to harmonic mixing of bichromatic fields with commensurate frequencies. *Diamond and Related Materials*. https://doi.org/10.1016/j.diamond.2023.109993
4. D. Sekyi-Arthur, S.Y. Mensah, **E.K. Amewode**, C. Jebuni-Adanu, J. Asare (2023). High frequency amplification of acoustic phonons in fluorine-doped single-walled carbon nanotubes. *Diamond and Related Materials*. https://doi.org/10.1016/j.diamond.2023.110642
5. **E.K. Amewode**, B. Sefa-Ntiri, A. Owusu, M. K. Vowotor, S. S. Sackey, F. Kumi, C. L. Y Amuah (2023). Investigation of Amended Sandy Soil's Water Retention Characteristics. *African Journal Of Applied Research*. https://doi.org/10.26437/ajar.v9i2.563
6. D. Sekyi-Arthur, C. Jebuni-Adanu, S.Y. Mensah, **E.K. Amewode** (2022). Thermal conductivity in fluorine-

doped single-walled carbon nanotubes. *Materialia*. https://doi.org/10.1016/j.mtla.2022.101613

7. Michael Kwame Vowotor, Raymond Edziah, Samuel Sonko Sackey, **Emmanuel Kofi Amewode**, Sandra Baaba Frempong (2021). Assessment of Arsenic and Copper Pollution of the Benya Lagoon, Ghana By Neutron Activation Analysis. *Journal of Engineering Advancements*. https://doi.org/10.38032/jea.2021.04.004
8. M. K. Vowotor, **E. K. Amewode** (2020). Anthropogenic Impact of Five Heavy Metals on Benya Lagoon Water - Ghana. *International Journal of Science and Engineering Investigations*.

Theses 1

1. **Emmanuel Kofi Amewode** (2020). Evaluation of Physical Characteristic of Sandy Soil, the Effects of Amendments Using Comsol Multiphysics and Laboratory Experiments. *Ph. D. Thesis*. https://ir.ucc.edu.gh/server/api/core/bitstreams/f73f9dfb-6b9c-4d7a-896f-09f1a85fe047/content